

الحبود

## PEQUENCE LINE HAS

## (1) GENERAL INFORMATION:

- 11) APPLICANT: Lin, Yao-Zhong Hawiger, Jack J.
- (ii) TITLE OF INVENTION: A NOVEL METHOD FOR IMPORTING FIGURALLY ACTIVE MOLECULES INTO CELLS
- (iii) NUMBER OF SEQUENCES: 11
  - (iv) COMPUTER READABLE FORM:
    - (A) MEDIUM TYPE: Floppy disk
    - (B) COMPUTER: IBM P3 compatible
    - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
    - (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
- (vi) CHERENT APPLICATION DATA:
  - (A) APPLICATION NUMBER: 09/516,310
  - (B) FILING DATE: 2000-03-01
  - (C) CLASSIFICATION:
- (viii) ATTORNEY, AGENT INFOLMATION:

  - (A) NAME: Pertyman, David G.
    (B) REGISTRATION NUMBER: 33,438
    (C) REFERENCE DOCKET NUMBER: 22000.0021U2
  - (ix) TELECOMMUNICATION INFORMATION:
    - [A) TELEPHONE: 404,688-0770
    - B) TELEFAX: 404, 688-9880
- (2) INFORMATION FOR SEQ 1D NC:1:
  - (1) SEQUENCE CHARACTERISTICS:
    - (A) LENGIH: 20 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: lirear
  - (i1) MOLECULE TYPE: peptide
  - (iii) HYPOTHETICAL: NO
  - (in) FEATURE:
    - (A) NAME/KEY: Peptibe
    - (B) LOCATION: 1..16
    - (D) OTHER INFORMATION: /label= a /nore= "Signal paptide amino acid sequence of K-FGF"
  - (ix) FEATURE:
    - (A) NAME/KEY: Peptide

    - (B) LOCATION: 17..19
      (D) OTHER INFORMATION: /label= b /note= "Spacer region"
  - 'im' FEATURE:

    - TA, NAME/KEY: Septide (B) LOCATION: 20..26 (C) OTHER INFORMATION: /label/ 5 /note= "Epitope tag"

x), DEQUENCE DESCRIPTION: DEC 10 No.1: Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala Pro 10 Ala Ala Aia Asp Gln Asn Gln Leu Met Pro (2) INFORMATION FOR SEQ ID NO:2: (i) SEQUENCE CHARACTERICTICS: (A) LENGIH: 7 amine acids (E) TYPE: amino ac.d (C) SYFANIEDNESS: single (E) TOFCL GY: linear (ii) MOLECULE PYPE: peptide (iz) FEATURH: (A) NUME (UEY: Depti de (B) DOCATION: 1...7 (D) OTHER INFORMATION: /label= a /:. te= "Nuclear localization sequence of aFGF" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: Asn Tyr Lys Lys Pro Lys Leu (2) INFORMATION FOR BEQ ID NO:3: (i) SEQUENCE CHARACTERISTICS: (A) LINGTH: 26 amin ac.ds (h) TYPE: wrine acid (C) STRANIEDNESS: s.ngle (D) TOPDIC W: linear (ii) MCLECULE TYPE: pepti le (ix) FEATURE: (A NAME FEY: Peptite (B 100ATION: 1..16 OTHER INFORMATION: /label= a 'nc'e= "Signal peptide amino acid sequence of K-FFT (ix) FEATURE: (A. NAME FEY: Peptile (E) LCCATI N: 17..1. (D) OTHER INFURMATION: /label= b ,'nc'e- "Spacer region" (ix) FEATURE: (A) NAME, FFY: Peptile (E) LOCATIN: 20..2/ (B) OTHER INFORMATION: /label= c vncte= "Nuclear localization sequence of aFGF" 'xi) SEQUENCE DESCRIPTION: SEÇ IJ :炒:3:

Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala Pro 1 5 15

Ala Ala Ala Ash lyr Lys Lys Fro THEY PMATIFUL FOR MEN, ID NO:4: (1) DEPUENCE CHARATTERISTIC: (A) LENGTH: 28 amino acids (E) TYPE: amino abla
(\*\*) CTPANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: peptide (ix) FEATURE: (A) NAME/KEY: Peptide (E) LOCATION: 1..16 (D) OTHER INFORMATION: /label a 'note= "Signal poptide amino acid sequence of .(-F-3F" (iz) FEATURE: AR NAME/KEY: Peptide (E) LOCATION: 17..19 (5) OTHER INFORMATION: /laber- b 'note= "Spacer region" (ix) FEATURE: (A) NAME/EEY: Peptide (B) LOCATION: 20..26 (D) OTHER INFORMATION: /label= c 'note= "Nuclear localization sequence of aFGF" (ix) FEZTURE: (A) NAME/REY: Peptide (E) LÚCATION: 26..23 ·D, OTHER INFORMATION: /label 'note= "Epitope tag" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: Ala Ala Val Ala Leu Leu Pro Ala Val Leu Lou Ala Leu Lou Ala Pro Ala Ala Asr. Tyr Lys Lys Pro Lys Leu Met Pro (2) INFORMATION FOR SEQ ID NO:5: (i) SEQUENCE CHARACTERISTICS: A) LENGTH: 16 amino abids (B) TYPE: amino acid (C) STRANCEUNEGS: single (D) TOPOLOGY: linear (ii) MONECULE TYPE: repuide FEATURE: (A) NAME/KEY: Feptide THE LOCATION: 1.16 TO THE CONTROL OF THE CONTROL OF

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Ala Ala Val Ala Den Len Pro Ala Val Den Ala Len Len Ala Er 1 - 10 - 15

- The information for SEQ 1D NO:6:
  - THE SEQUENCE CHARACTERICTICS:
    - (A) LENGTH: 41 amino acids

    - (B) TYFE: amino acid (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: peptide
  - (mi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala Fro

Gie Ile Lee Lee Fro Asn Asn Tyr Asn Ala Tyr Gir. Ser Tyr Lys Tyr 20 25 30

Pro Gly Met Phe lie Ala Leu Sor Lya

- (2) INFORMATION FOR SEQ ID NO:7:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 25 amino acids
    - (E) TYPE: amino acid
    - (C) STRANDEDNESS: single
    - ()) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: peptide
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Glu Ile Leu Leu Pro Asn Asn Tyr Asn Ala Tyr Glu Ser Tyr Lys Tyr

Pro Gly Met Phe Ile Ala Leu Ser Lys

- (2) INFORMATION FOR SEQ ID NO:8:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 26 amino acids

    - (B) TYPE: amino acid(C) STRANDEDNESS: single
    - (14) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: peptide
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Ala Ala Mai Ala Leu Leu Pro Ala Mai Leu Leu Ala Deu Teu Ala Br 1 5 10 13

Tie Glu Glu Lys Arg Lys Arg Thr lyr

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11,	REQUENCE	CHARAC	

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(A) LENGTH: 26 amino acids

(A) TYPE: aming acid (C) OTFANDEDREUS: single (D) TOFOLOGY: linear

(ii) MOLECULE TYPE: poptide

(MI) SEQUENCE DESCRIPTION: NEW ID NO:9:

Ala Ala Val Ala Leu Leu Fro Ala Mal Leu Leu Ala Leu Leu Ala Pro 1 5 10 15

Val Asn Arg Lys Arg Asn Lys Leu Met Pro 20 25

## INFORMATION FOR SEQ ID NO:10:

(1) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 10 amino acids

(B) TYPE: amino adid (C) STRANDEDNESS: single

(D: TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(mi) sequence description: SEQ ID NO:16:

Wal Ash Arg Lys Arg Ash Lys Leu Met Pro

## (2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:
  - (A: LENGTH: 10 amino acids
  - (B: TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (11) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
- lie Glo Glo Lys Arg Lys Arg Thr Tyr Glo